

In the Claims:

1. Canceled.

2. (Currently amended) An apparatus for font generation comprising:

a basic font storage section storing a font character of a basic font for generating a font character;

a feature parameter storage section storing a feature parameter representing a feature of the font character $[[\div]]$, the feature parameter including at least one of the features of radicals of the font character based on the character's stroke resulting in a shape of the font character;

a genetic algorithm processing section configured to generate plural new feature parameters by performing genetic algorithm processing on the feature parameter $[[\div]]$;

a font generation section configured to generate new font characters by deforming the font character of the basic font based on the plural new feature parameters generated in the genetic algorithm processing section;

a display unit displaying the new font characters generated in the font generation section $[[\div]]$;

$[[\text{a}]]$ a first input unit scanning a character handwritten by the user;

a second input unit to receive a font selected by the user from among font characters displayed on a display unit; and

a character features extraction section configured to recognize a character from character data scanned by the first input unit, to compare the recognized character and the font character of the basic font, and to extract a feature of the handwritten character as the feature parameter wherein

the genetic algorithm processing section determines the plural new feature parameters according to the preferences of a user based on a font character selected by the user from among the ~~new~~ font characters displayed on the display unit, and

the font generation section creates a font based on the plural new feature parameters according to the preferences of the user determined by the genetic algorithm processing section.

3. (Previously presented) The apparatus of claim 2, wherein the genetic algorithm processing section generates plural new feature parameters by performing genetic algorithm processing including crossover and mutation on two feature parameters selected from the feature parameter.

4. Canceled.

5. (Currently amended) An apparatus for font generation comprising:

a basic font storage section storing a font character of a basic font for generating a font character;

a feature parameter storage section storing a feature parameter representing a feature of the font character;

a genetic algorithm processing section configured to generate plural new feature parameters by performing genetic algorithm processing on the feature parameter;

an input unit to receive a font selected by the user from among font characters displayed on a display unit;

a font generation section configured to generate new font characters by deforming the font character of the basic font based on the plural new feature parameters generated in the genetic algorithm processing section; and

a display unit displaying the new font characters generated in the font generation section; wherein the genetic algorithm processing section determines the plural new feature parameters according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit,

the font generation section creates a font based on the plural new feature parameters according to the preferences of the user determined by the genetic algorithm processing section,

the feature parameter including at least one of the features of radicals of the font character of the length of stroke, the roundness of stroke, the undulation of stroke, the angle of stroke, the weight of stroke, the corner, and the deformation of outside shape of font character.

6. (Currently amended) An apparatus for font generation comprising: a basic font storage section storing a font character of a basic font for generating a font character;

a feature parameter storage section storing a feature parameter expressing a numerical value of the font character;

a genetic algorithm processing section configured to generate plural new feature parameters by performing genetic algorithm processing on the feature parameter;

a font generation section configured to generate new font characters by deforming the font character of the basic font based on the plural feature parameters generated in the genetic algorithm processing section; and

a display unit displaying the new font characters generated in the font generation section; wherein

the genetic algorithm processing section determines the feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit,

the font generation section creates a font based on the feature parameter according to the preferences of the user determined by the genetic algorithm processing section,

an input unit scanning a character handwritten by the user; and a character features extraction section configured to recognize a character from character data scanned by the input unit, to compare the recognized character and the font character of the basic font, and to extract a feature of the handwritten character as the feature parameter,

wherein the feature parameter includes at least one of the features of radicals of the font character of the length of stroke, the roundness of stroke, the undulation of stroke, the angle of stroke, the weight of stroke, the corner, and the deformation of outside shape of font character.

7. Canceled.

8. (Currently amended) A computer readable storage medium recording a program for font generation, the program executing in a font generation apparatus, the program comprising:

generating plural new feature parameters by performing genetic algorithm processing on a parent feature parameter representing the feature of a font character;

generating new font characters by deforming a font character of a basic font for generating a font character based on the plural new feature parameters;

displaying the new font characters on a display unit;

determining a new parent feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit; [and]

creating a font based on the new parent feature parameter according to the preferences of the user,

scanning a character handwritten by the user with an input unit; and

recognizing a character from character data scanned by the input unit;

comparing the recognized character and the font character of the basic font, and

extracting a feature of the handwritten character as the feature parameter, wherein the feature parameter including at least one of the features of radicals of the font character based on the character's stroke resulting in a shape of the font character.

9. (Previously presented) The computer readable storage medium of claim 8, wherein the genetic algorithm processing includes generating plural new feature parameters by performing genetic algorithm processing including crossover and mutation on two feature parameters selected from the feature parameter.

10. Canceled.

11. (Currently amended) A computer readable storage medium recording a program for font generation, the program executing in a font generation apparatus, the program comprising:

generating plural new feature parameters by performing genetic algorithm processing on a parent feature parameter representing a feature of a font character;

generating new font characters by deforming a font character of a basic font for generating a font character based on the plural new feature parameters;

displaying the new font characters on a display unit;

determining a new parent feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit; and

creating a font based on the new parent feature parameter according to the preferences of the user,

the parent feature parameter including at least one of the features of radicals of the font character of the length of stroke, the roundness of stroke, the undulation of stroke, the angle of stroke, the weight of stroke, the corner, and the deformation of outside shape of font character.

12. (Currently amended) A computer readable storage medium recording a program for font generation, the program executing in a font generation apparatus, the program comprising:

generating plural new feature parameters by performing genetic algorithm processing on a feature parameter expressing the feature of a font character; generating new font characters by deforming a font character of a basic font for generating a font character based on the plural generated feature parameters; displaying the new generated font characters on a display unit;

determining the feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit; and creating a font based on the determined feature parameter according to the preferences of the user; and

scanning a character handwritten by the user with an input unit; and recognizing a character from character data scanned by the input unit; comparing the recognized character and

the font character of the basic font, and extracting a feature of the handwritten character as a feature parameter,

the feature parameter including at least one of the features of radicals of the font character of the length of stroke, the roundness of stroke, the undulation of stroke, the angle of stroke, the weight of stroke, the corner, and the deformation of outside shape of font character.

13. Canceled.

14. (Currently amended) A method for font generation in an apparatus for font generation, the method comprising:

generating plural new feature parameters by performing genetic algorithm processing on a parent feature parameter representing a feature of a font character;

generating new font characters by deforming a font character of a basic font for generating a font character based on the plural new feature parameters $[[+]]$;

displaying the new font characters on a display unit $[[+]]$;

determining a new parent feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit;

creating a font based on the new parent feature parameter according to the preferences of the user;

scanning a character handwritten by the user with an input unit; ~~[[and]]~~

recognizing a character from character data scanned by the input unit; and

comparing the recognized character and the font character of the basic font, and extracting a feature of the handwritten character as the feature parameter, wherein the feature parameter including at least one of the features of radicals of the font character based on the character's stroke resulting in a shape of the font character.

15. (Previously presented) The method of claim 14, wherein the genetic algorithm processing includes generating plural new feature parameters by performing genetic algorithm processing including crossover and mutation on two of the feature parameters selected from the feature parameter.

16. Canceled.

17. (Currently amended) A method for font generation in an apparatus for font generation, the method comprising:

generating plural new feature parameters by performing genetic algorithm processing on a parent feature parameter representing a feature of a font character;

generating new font characters by deforming a font character of a basic font for generating a font character based on the plural new feature parameters;

displaying the new font characters on a display unit;

determining a new parent feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit; and

creating a font based on the new parent feature parameter according to the preferences of the user,

the parent feature parameter including at least one of the features of radicals of the font character of the length of stroke, the roundness of stroke, the undulation of stroke, the angle of stroke, the weight of stroke, the corner, and the deformation of outside shape of font character.

18. (Currently amended) A method for font generation in an apparatus for font generation, the method comprising:

generating plural new feature parameters by performing genetic algorithm processing on a feature parameter expressing the feature of a font character; generating new font characters by deforming a font character of a basic font for generating a font character based on the plural generated feature parameters;

displaying the new generated font characters on a display unit; determining the feature parameter according to the preferences of a user based on a font character selected by the user from among the new font characters displayed on the display unit; [and]

creating a font based on the determined feature parameter according to the preferences of the user; and

scanning a character handwritten by the user with an input unit; and recognizing a character from character data scanned by the input unit; comparing the recognized character and the font character of the basic font, and extracting a feature of the handwritten character as a feature parameter,

the feature parameter including at least one of the features of radicals of the font character of the length of stroke, the roundness of stroke, the undulation of stroke, the angle of stroke, the weight of stroke, the corner, and the deformation of outside shape of font character.